

Message Text

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TAGS: SNAR

SUBJECT: JONES CONTRIBUTION TO GREENFIELD REPORT

FOR BETTY GOUGH

1. HERewith IS SUBJECT CONTRIBUTION:

TECHNOLOGY OF POPPY STRAW PRODUCTION

2. NEARLY 40 PERCENT OF THE WORLD'S SUPPLY OF MEDICINAL MORPHINE COMES FROM POPPY STRAW. THE PERCENTAGE IS INCREASING AT THE EXPENSE OF MORPHINE FROM OPIUM. COUNTRIES WHICH HAVE MADE THE CHANGE FROM OPIUM TO STRAW HAVE FOUND IT TO BE TO THEIR ECONOMIC ADVANTAGE. TURKEY WILL HAVE THE SAME EXPERIENCE PROVIDING SHE TAKES FULL ADVANTAGE OF THE SEVERAL FACTORS WHICH ENHANCE MORPHINE YIELD PER HECTARE.

3. PLANT POPULATION -- BY THIS IS MEANT THE NUMBER OF PLANTS PER UNIT AREA. IN CULTIVATING THE POPPY FOR OPIUM, IT IS CUSTOMARY TO THIN THE CROP IN EARLY SPRING

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TO 10-12 PLANTS PER SQUARE METER (100,000-120,000

PER HECTARE). IN GROWING THE POPPY FOR ITS CAPSULES (STRAW), 30-50 PLANTS PER SQUARE METER SHOULD BE LEFT. THE BETTER THE SOIL FERTILITY AND WATER AVAILABLE, THE HIGHER THE PLANT POPULATION CAN BE. HIGHER PLANT

POPULATIONS INCREASE STRAW AND SEED YIELDS, REDUCE COMPETITION FROM WEEDS AND FACILITATE MECHANICAL HARVESTING.

4. MORPHINE CONTENT OF STRAW -- POPPY VARIETIES WHICH YIELD OPIUM OF HIGH MORPHINE CONTENT DO NOT NECESSARILY YIELD STRAW OF HIGH MORPHINE CONTENT. MORPHINE IN NON-INCISED POPPY STRAW IS KNOWN TO VARY FROM .30 PERCENT TO 1.0 PERCENT. OBVIOUSLY, THEN, THE VARIETY ALONE CAN AS MUCH AS TRIPLE MORPHINE YIELD PER KILOGRAM OF STRAW.

5. PROTECTION OF MORPHINE CONTENT IN STRAW -- RAIN WILL LEECH MORPHINE FROM DRY POPPY STRAW. THIS IS NOT EXPECTED TO BE A PROBLEM IN THE POPPY GROWING AREAS OF TURKEY DURING THE MONTHS OF JULY THROUGH SEPTEMBER BUT DOES INDICATE THAT STORED STRAW WILL HAVE TO BE PROTECTED FROM RAIN AND SNOW TO AVOID MORPHINE LOSS.

6. THE FOLLOWING TABLE PROVIDES A QUICK REFERENCE TO EXPECTED VALUES PER HECTARE BASED ON DIFFERENT STRAW YIELDS AND MORPHINE CONTENTS.

EXPECTED VALUES PER HECTARE

STRAW OF .30 PERCENT MORPHINE

STRAW YIELD KILOGRAM (KG)-STRAW VALUE (TL)-SEED VALUE (TL)

--500-----	5,740-----	4,000
--800-----	9,184-----	6,400
1,000-----	11,480-----	8,000
1,500-----	17,220-----	12,000
2,000-----	22,960-----	16,000

STRAW OF .40 PERCENT MORPHINE

STRAW YIELD KILOGRAM (KG)-STRAW VALUE (TL)-SEED VALUE (TL)

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--500-----	8,540-----	4,000
--800-----	13,664-----	6,400
1,000-----	17,080-----	8,000
1,500-----	25,620-----	12,000
2,000-----	34,160-----	16,000

STRAW OF .50 PERCENT MORPHINE

STRAW YIELD KILOGRAM (KG)-STRAW VALUE (TL)-SEED VALUE (TL)

--500-----	11,340-----	4,000
--800-----	18,144-----	6,400
800-----	18,144-----	6,400
1,000-----	22,680-----	8,000
1,500-----	34,020-----	12,000
2,000-----	45,360-----	16,000

STRAW OF .80 PERCENT MORPHINE

STRAW YIELD KILOGRAM (KG)-STRAW VALUE (TL)-SEED VALUE (TL)

--500-----	19,740-----	4,000
--800-----	31,584-----	6,400
1,000-----	39,480-----	8,000
1,500-----	59,220-----	12,000
2,000-----	78,960-----	16,000

NOTE: STRAW VALUE TO FARMER WAS CALCULATED ACCORDING TO FOLLOWING ASSUMPTIONS:

- A) DELIVERED TO PROCESSOR VALUE OF 1KG MORPHINE CONTAINED IN STRAW 5,600 TL.
- B) FIXED HANDLING AND SHIPPING COSTS PER TON OF STRAW REGARDLESS OF MORPHINE CONTENT 5,320 TL.

THEREFORE THE FOLLOWING EQUATION WILL GIVE FARM VALUE PER HECTARE OF STRAW OF VARYING MORPHINE CONTENT:
PERCENT MORPHINE X MT OF STRAW X 5600 TL - 5320 TL/MT
STRAW

SEED VALUE IS BASED ON A PRICE TO THE FARMER OF 8TL/KG.

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7. RESEARCH

A) TURKEY IS CONDUCTING A MAMMOTH (20,000 HECTARE) EXPERIMENT THIS YEAR ON POPPY STRAW PRODUCTION. FULL ADVANTAGE SHOULD BE TAKEN OF THIS OPPORTUNITY TO COLLECT SAMPLES OF MATURE CAPSULES (WITH SEED) FROM THROUGHOUT THE PRODUCTION AREA WITH SPECIAL ATTENTION GIVEN TO PLANT CHARACTERISTICS, SOIL TYPES, AND MOISTURE AVAILABILITY. SEVERAL THOUSAND OF SUCH SAMPLES SHOULD BE ANALYZED FOR MORPHINE CONTENT AND SEED YIELD. SEED OF THOSE SAMPLES SHOWN TO BE SUPERIOR IN EITHER OR BOTH OF THESE CHARACTERISTICS WOULD BE AVAILABLE FOR BREEDING AND SELECTION RESEARCH LEADING TO DEVELOPMENT OF SUPERIOR VARIETIES FOR TURKISH CONDITIONS.

B) RESEARCH TO DETERMINE OPTIMUM PLANT POPULATIONS FOR
MAXIMUM YIELDS OF STRAW AND SEED SHOULD BE STARTED

IMMEDIATELY UNDER GREENHOUSE CONDITIONS AND CARRIED
TO THE FIELD WITH NEXT YEAR'S CROP. KISSINGER

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